

WEST Search History

DATE: Friday, May 30, 2003

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
side by side		result set	
<i>DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=AND</i>			
L14	L11 and (electrode\$3 or anode or cathode)	210	L14
L13	L12 and (electrode\$3 or anode or cathode)	91	L13
L12	L11 and potential	251	L12
L11	L10 and (iron or Fe or "Fe.sup.2+" or "Fe.sup.+2" or "Fe.sup.3+" or "Fe.sup.+3")	1032	L11
L10	L9 and ((nitrate adj ion\$3) or "NO.sub.3")	1784	L10
L9	L8 and ((phosphoric adj acid) or "H.sub.3PO.sub.4")	13555	L9
L8	(phosphate adj ion\$3) or "PO.sub.4"	44537	L8
L7	L6 and ((oxidation near2 reduction near2 potential) or ORP)	6	L7
L6	L5 and (iron or Fe or "Fe.sup.2+" or "Fe.sup.+2" or "Fe.sup.3+" or "Fe.sup.+3")	71	L6
L5	L4 and ((nitrate adj ion\$3) or "NO.sub.3")	85	L5
L4	L3 and ((phosphoric adj acid) or "H.sub.3PO.sub.4")	254	L4
L3	L2 and ((phosphate adj ion\$3) or "PO.sub.4")	424	L3
L2	(phosphate or phosphorus) near3 (chemical or conversion) near3 (coating or film or layer or treatment)	1637	L2
L1	(phosphate or phosphorus) near3 (chmeical or conversion) near3 (coating or film or layer or treatment)	1160	L1

END OF SEARCH HISTORY

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(FILE 'HOME' ENTERED AT 10:47:58 ON 30 MAY 2003)

FILE 'CPLUS' ENTERED AT 10:48:16 ON 30 MAY 2003

L1 5655 S PHOSPHATE (A) ION#
L2 502 S L1 AND ((PHOSPHORIC (A) ACID) OR H.SUP.3PO.SUP.4)
L3 714 S L1 AND ((PHOSPHORIC (A) ACID) OR H3PO4)
L4 52 S L3 AND ((NITRATE (A) ION#) OR NO3)
L5 17 S L4 AND (IRON OR FE? OR FERRIC OR FERROUS)
L6 2 S L5 AND (ELECTRODE# OR ANODE OR CATHODE)

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(FILE 'HOME' ENTERED AT 10:47:58 ON 30 MAY 2003)

FILE 'CAPLUS' ENTERED AT 10:48:16 ON 30 MAY 2003

L1 5655 S PHOSPHATE (A) ION#
L2 502 S L1 AND ((PHOSPHORIC (A) ACID) OR H.SUP.3PO.SUP.4)
L3 714 S L1 AND ((PHOSPHORIC (A) ACID) OR H3PO4)
L4 52 S L3 AND ((NITRATE (A) ION#) OR NO3)
L5 17 S L4 AND (IRON OR FE? OR FERRIC OR FERROUS)
L6 2 S L5 AND (ELECTRODE# OR ANODE OR CATHODE)

=> d 15 all 3

L5 ANSWER 3 OF 17 CAPLUS COPYRIGHT 2003 ACS
AN 1998:742671 CAPLUS
DN 129:346192
TI Zinc phosphate coating solution for treatment of aluminum alloy
IN Nishino, Toshinari; Izumi, Koichiro; Tsuge, Kenji; Miyamoto, Satoshi
PA Honda Motor Co., Ltd., Japan; Nippon Paint Co., Ltd.
SO Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM C23C022-56
ICS C23C022-13
CC 56-6 (Nonferrous Metals and Alloys)
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10306382	A2	19981117	JP 1997-112314	19970430
	JP 3366826	B2	20030114		
PRAI	JP 1997-112314		19970430		

AB The title soln. contains Zn ion 0.1-2.0, Ni ion 0.1-4.0, Mn ion 0.1-3.0, phosphate ion 5-40, nitrate ion 0.1-15, nitrite ion 0.01-0.5, F compd. complex (as F) 0.5-1.0, F compd. (as F) 0.3-0.5, and Fe-chelating compd. (as Fe) 0.005-0.075 g/l. The uniform and dense Zn phosphate coating with high filiform corrosion can be formed by using the soln. The soln. is esp. useful for treating 6000 series Al alloys before cationic electrodeposition coating.

ST zinc phosphate coating soln aluminum alloy
IT Coating process
(phosphating; soln. for forming dense zinc phosphate coating with filiform corrosion resistance on aluminum alloy)

IT Fluorides, uses
Nitrates, uses
Nitrites
RL: TEM (Technical or engineered material use); USES (Uses)
(soln. for forming dense zinc phosphate coating with filiform corrosion
resistance on aluminum alloy)

IT 77073-13-3
RL: MSC (Miscellaneous)
(soln. for forming dense zinc phosphate coating with filiform corrosion
resistance on aluminum alloy)

IT 7439-89-6, Iron, uses 7439-96-5, Manganese, uses 7440-02-0,
Nickel, uses 7440-66-6, Zinc, uses 7664-38-2D, Phosphoric

acid, ion, uses

RL: TEM (Technical or engineered material use); USES (Uses)
(soln. for forming dense zinc phosphate coating with filiform
corrosion
resistance on aluminum alloy)

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Patent Assignment Abstract of Title

Total Assignments: 1**Application #:** 10077777**Filing Dt:** 02/20/2002**Patent #:** NONE**Issue Dt:****PCT #:** NONE**Publicati n #:** NONE**Pub Dt:****Inventors:** Shigeki Matsuda, Shin Nishiya**Title:** Electrolytic phosphate chemical treatment method**Assignment: 1****Reel/Frame:** 012613/0644 **Received:**

03/01/2002

Recorded:
02/20/2002**Mailed:**
04/23/2002**Pages:** 2**Conveyance:** ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).**Assignors:** MATSUDA, SHIGEKI
NISHIYA, SHIN**Exec Dt:** 02/12/2002
Exec Dt: 02/13/2002**Assignee:** DENSO CORPORATION
1-1 SHOWA-CHO KARIYA-CITY
AICHI-PREF., 448-8661, JAPAN**C rrespondent:** OLIFF & BERRIDGE, PLC
JAMES A. OLIFF
P.O. BOX 19928
ALEXANDRIA, VA 22320

Search Results as of: 5/29/2003 12:23:33 P.M.

If you have any comments or questions concerning the data displayed, contact OPR / Assignments at 703-308-9723
 Web interface last modified: Oct. 5, 2002

WEST

 Generate Collection

L2: Entry 1 of 2

File: JPAB

Nov 17, 1998

PUB-NO: JP410306382A

DOCUMENT-IDENTIFIER: JP 10306382 A

TITLE: ZINC PHOSPHATE TREATING AGENT FOR ALUMINUM ALLOY

PUBN-DATE: November 17, 1998

INVENTOR-INFORMATION:

NAME

NISHINO, TOSHIYA

COUNTRY

IZUMI, KOICHIRO

TSUGE, KENJI

MIYAMOTO, TOMOSHI

ASSIGNEE-INFORMATION:

NAME

HONDA MOTOR CO LTD

COUNTRY

NIPPON PAINT CO LTD

APPL-NO: JP09112314

APPL-DATE: April 30, 1997

INT-CL (IPC): C23 C 22/56; C23 C 22/13

ABSTRACT:

PROBLEM TO BE SOLVED: To provide a zinc phosphate treating agent for an aluminum alloy forming uniform and dense zinc phosphate coating excellent in filiform erosion resistance.

SOLUTION: This is a treating agent before coating for an aluminum alloy, particularly, a treating agent before coating for automotive bodies in which a part soln. essentially consisting of 0.1 to 2.0 g/l zinc ions, 0.1 to 4.0 g/l nickel ions, 0.1 to 3.0 g/l manganese ions, 5 to 40 g/l phosphoric acid ions, 0.1 to 15 g/l nitric acid ions and 0.01 to 0.5 g/l nitrous acid ions and, as fluorides, compex 0.5 g/l expressed in terms of F and simple fluorides by 0.3 to 0.5 g/l expressed in terms of F and furthermore contg. the chelate compounds of iron by 0.005 to 0.075 g/l expressed in terms of Fe.

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